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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|------------------|----------------------|---------------------|------------------|
| 10/810,117 | 03/25/2004 | James Schleicher | ALTRP189/A1043 | 8048 |
| 51501 7 | 7590 01/10/2006 | | EXAMINER | |
| BEYER WEA | AVER & THOMAS, I | CHO, JAMES HYONCHOL | | |
| ATTN: ALTE | | | ART UNIT | PAPER NUMBER |
| P.O. BOX 70250 | | | AKTONII | TATER NOMBER |
| OAKLAND, (| CA 94612-0250 | | 2819 | |

DATE MAILED: 01/10/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

EL

| | | Application No. | Applicant(s) | | | |
|---|---|---|-------------------------------------|--|--|--|
| | | 10/810,117 | SCHLEICHER ET AL. | | | |
| | Office Action Summary | Examiner | Art Unit | | | |
| | | James Cho | 2819 | | | |
| The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply | | | | | | |
| A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). | | | | | | |
| Status | | | | | | |
| 1)⊠ Responsive to communication(s) filed on <u>10-26-2005</u> . | | | | | | |
| 2a)⊠ | This action is FINAL . 2b) ☐ Th | is action is non-final. | | | | |
| 3)□ | Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. | | | | | |
| Disposition of Claims | | | | | | |
| 5)⊠ 6)⊠ 7)⊠ | 4) Claim(s) 1, 3-24 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 16-24 is/are allowed. 6) Claim(s) 1 is/are rejected. 7) Claim(s) 3-15 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. | | | | | |
| Application Papers | | | | | | |
| 9) The specification is objected to by the Examiner. | | | | | | |
| 10)⊠ | 10)⊠ The drawing(s) filed on <u>25 March 2004</u> is/are: a)□ accepted or b)⊠ objected to by the Examiner. | | | | | |
| | Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). | | | | | |
| 11) | Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. | | | | | |
| | | | | | | |
| Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. | | | | | | |
| Attachment(s) | | | | | | |
| | e of References Cited (PTO-892) | 4) Interview Summary | | | | |
| 3) 🔲 Inform | e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 r No(s)/Mail Date | Paper No(s)/Mail Da 5) Notice of Informal P 6) Other: | ate latent Application (PTO-152) | | | |

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DETAILED ACTION

Receipt is acknowledged of the Amendment filed 10-26-2005.

Drawings

The drawings are remained to be objected to because lines, numbers & letters in Figs. 1 - 4 are not uniformly thick and well defined, clean, durable, and black. 37 CFR 1.84(I). A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Objections

Claims 1 and 15 are objected to because of the following informalities:

In claim 1, "anfourth" on line 17 appears to be --and a fourth--; and
In claim 15, "two.3-input" on line 2 appears to be --two 3-input--.

Appropriate correction is required.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 1 is rejected under 35 U.S.C. 102(e) as being anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Pedersen (US PAT No. 6,798,240) in view of Fig. 4 of Sharpe-Geisler (US PAT No. 5,808,942).

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Regarding claim 1, Fig. 5 of Pedersen teaches a logic circuit including; a plurality of look up tables (530s and 550s) driven by a plurality of inputs (A1, A2, B1, B2, C1, C2. where Vcc and ground inputs are inherent input to the look up table since a look up table necessitate and is driven by a power supply Vcc and a ground in order to function properly), each of the plurality of LUTS included either in a first group of LUTS (530s) or a second group of LUTS (550s); at least one (A1) of the plurality of inputs driving each of the plurality of LUTS; at least a second (A2) of the plurality of inputs driving each LUT in the first group of LUTS and connectable to drive at least one of the LUTS in the second group of LUTS (550); at least a third (B1) of the plurality of inputs connectable to drive at least one of the LUTS in the first group of LUTS; at least two LUTS (two 530) in the first group of LUTS each driving a first multiplexer (570) and a second MUX (second 570); and at least a fourth (signals at either 506a or 506b) of the plurality of inputs driving a control input of the first MUX; at least a fifth input (B2) driving each LUT in the second group of LUTS and connectable to drive at least one of the LUTS in the first group of LUTS (505 receives B2 via 535, col. 13, lines 29-34), at least a sixth input (C2 via 555) of the plurality of inputs connectable to drive at least one of the LUTS in the second group of LUTS; at least two LUTS in the second group of LUTS each driving a third MUX (590) and a fourth MUX (590); and at least a seventh input (Vcc coupled to the control input of 590 via 516b) of the plurality of inputs driving a control input of the third MUX (590).

However, if the limitation regarding Vcc and ground inputs being a part of driving input of the look up table is not inherent in properly operating the look up tables, Fig. 5-1

of Sharpe-Geisler discloses a look up table with the power supply VDD and Ground Vss driving the look up table for powering up the look up table. It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to have provided the Vcc and ground inputs of Sharpe-Geisler to the look up tables of Pedersen in order to provide powers necessary to properly operate look up tables.

Response to Arguments

Applicant's arguments filed October 26, 2005 have been fully considered but they are not persuasive. On page 11 of the applicant's response, the applicant argues that the power supply signal Vcc is not being applied as an input to LUTs 530 or 550. The examiner notes that the power supply signal is inherently required to be inputted in the LUTs 530 or 550 so that LUTs 530 or 550 works properly. The newly cited reference, Sharpe-Geisler clearly teaches a look up table having a memory cell being driven by the power supply signal. The applicant also argues that Vcc is not used as a control or select input signal to the MUX 595. The examiner notes that Vcc of Pedersen is used to control the third MUX 590 through MUX 595.

Allowable Subject Matter

Claims 16-24 are allowable over the prior art of record.

Claims 3-15 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter was indicated in the Office action mailed July 26, 2005.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James Cho whose telephone number is 571-272-1802. The examiner can normally be reached on M-F 6:30 AM - 3:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rexford Barnie can be reached on 571-272-7492. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

James Cho Primary Examiner Art Unit 2819

1-4-2006